Attachment A - Graywater System Checklist

Drawings and Specifications

1. A simple plot plan drawn to scale (can use the Graywater Design Sheet):
   - ❑ lot lines and existing structures
   - ❑ direction and approximate slope of surface
   - ❑ location of retaining walls, drainage channels, water supply lines, wells
   - ❑ location of paved areas and structures
   - ❑ location of sewage disposal system and 100% expansion area (if applicable)
   - ❑ location of proposed graywater system (Table 16-1)
   - ❑ number of bedrooms and plumbing fixtures (1601.0)
2. Details of construction:
   - ❑ installation, construction and materials
   - ❑ *Simplified Soils Test for Single-Family Graywater Systems* or soil absorption test

Estimate of Graywater Discharge – see Section 1606 of CPC

- ❑ bedroom #1 (2 occupants)
- ❑ additional bedrooms (1 occupant)
- ❑ showers, tubs, wash basins: 30 gpd/occupant
- ❑ laundry: 15 gallons per day /occupant

Required Area

- ❑ each zone to distribute all graywater produced daily without surfacing
- ❑ meets Table 16-2 design criteria for subsurface drip systems or mini-leachfield

Surge Tanks

- ❑ solid, durable material, watertight when filled, protected from corrosion
- ❑ anchored on dry, level, compacted soil or 3" concrete slab
- ❑ meets standards for non-potable water
- ❑ vented with locking gasketed access opening
- ❑ capacity permanently marked on tank
- ❑ "GRAYWATER IRRIGATION SYSTEM, DANGER-UNSAFE WATER" permanently marked on tank
- ❑ overflow permanently connected to sewer or septic tank

Valves and Piping

- ❑ piping downstream of water seal type trap
- ❑ piping marked "DANGER –UNSAFE WATER"
- ❑ all valves readily accessible
- ❑ backwater valves on all surge tank drain connections to sanitary drain or sewer
- ❑ stub-out plumbing permanently marked

Subsurface Drip Irrigation Systems

- ❑ minimum 140-mesh (115-micron) 1” filter, with a 25-gpm capacity
- ❑ filter backwash drains to the sewer or septic tank
- ❑ number of emitters determined from Table 16-3 minimum spacing 14”
- ❑ supply lines of PVC class 200 pipe or better and schedule 40 fittings, when pressure tested at 40 psi
- ❑ supply lines 8” deep, feeder lines (poly or flexible PVC) 9” deep
- ❑ downstream, pressure does not exceed 20 psi
- ❑ each irrigation zone has automatic flush valve and vacuum breaker

Inspection

- ❑ system components identified as to manufacturer
- ❑ irrigation field installed at same location as soil test
- ❑ installation conforms with approved plans

Testing

- ❑ surge tank remains watertight as tank is filled with water
- ❑ flow test show all lines and components remain watertight